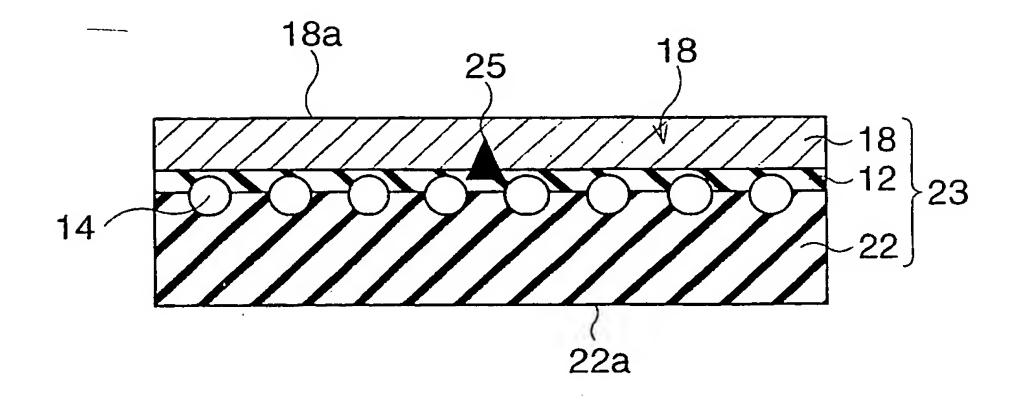


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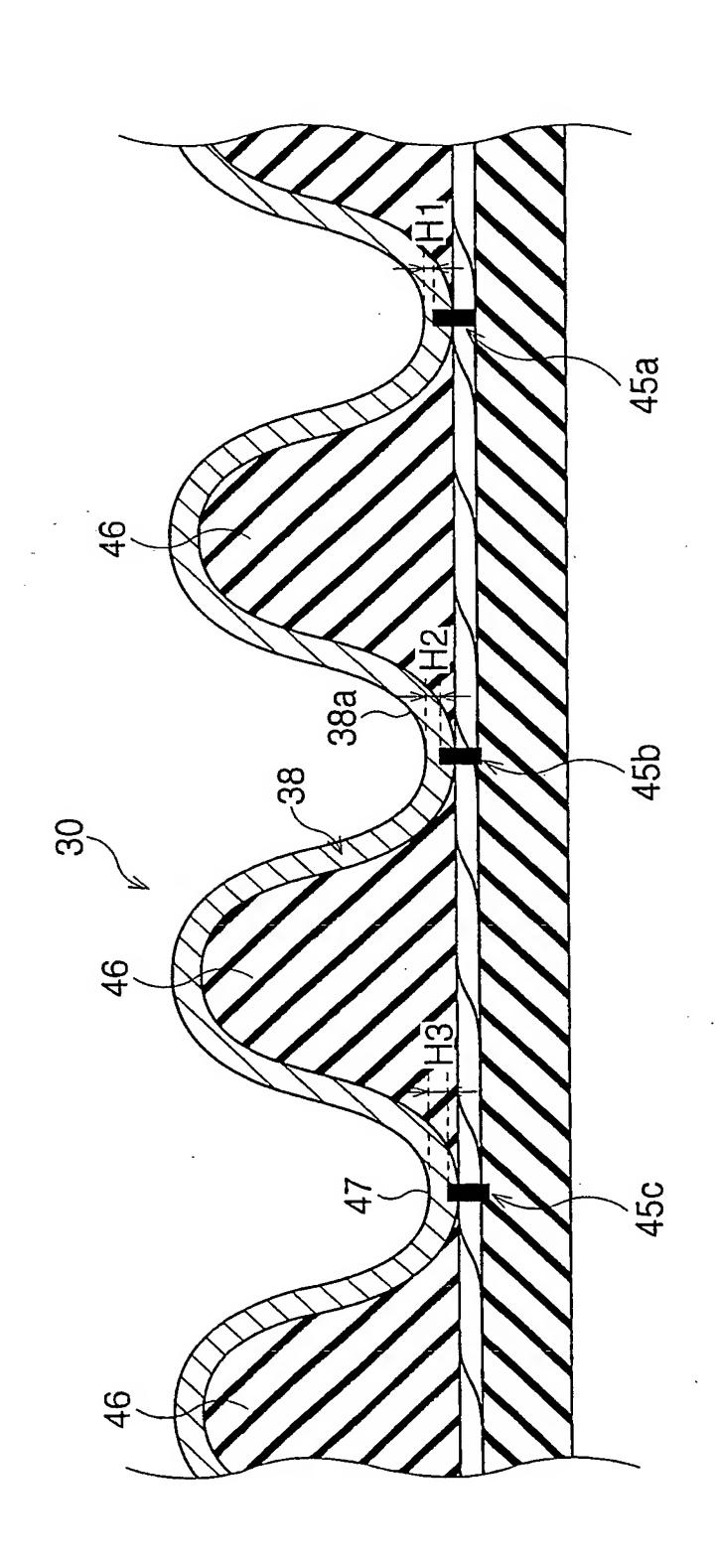
FIG. 2



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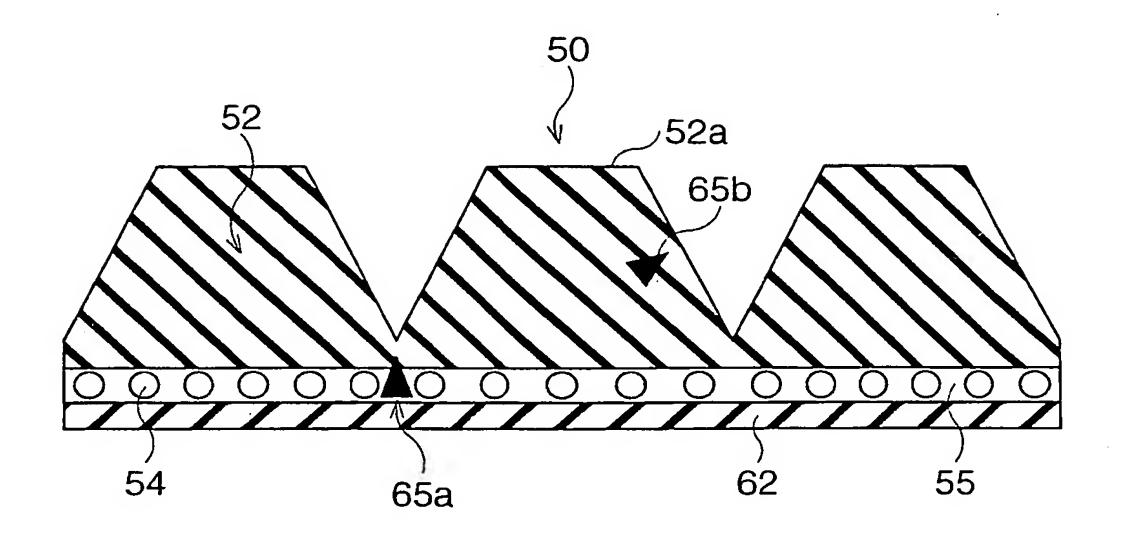


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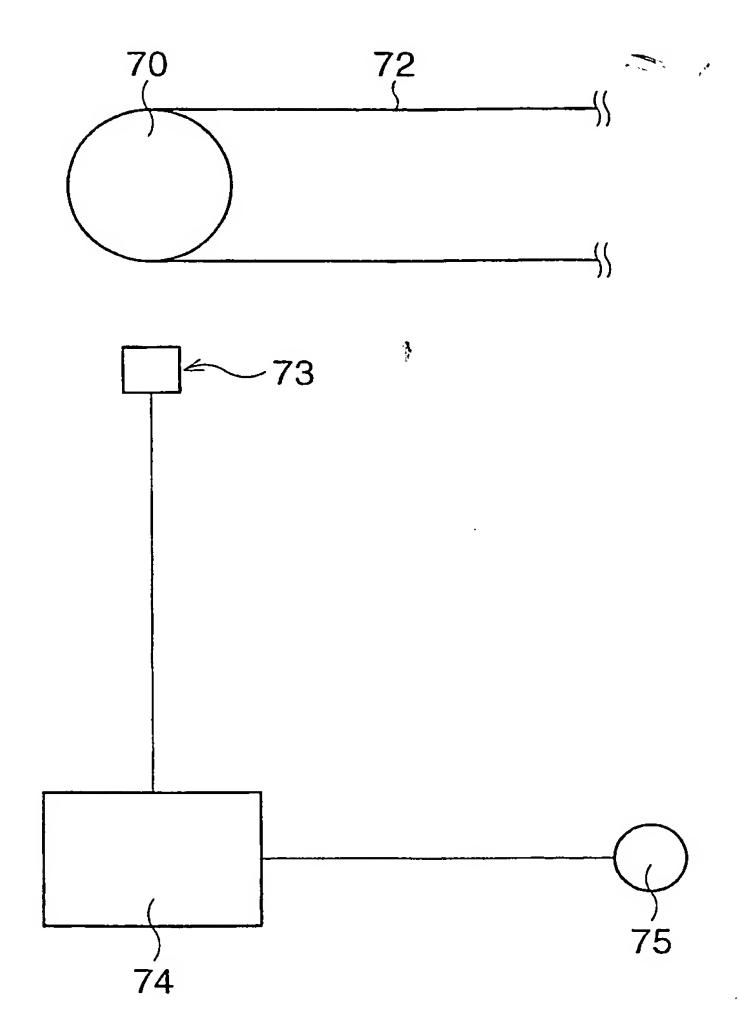
FIG. 4



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FIG. 5



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FIG. 6

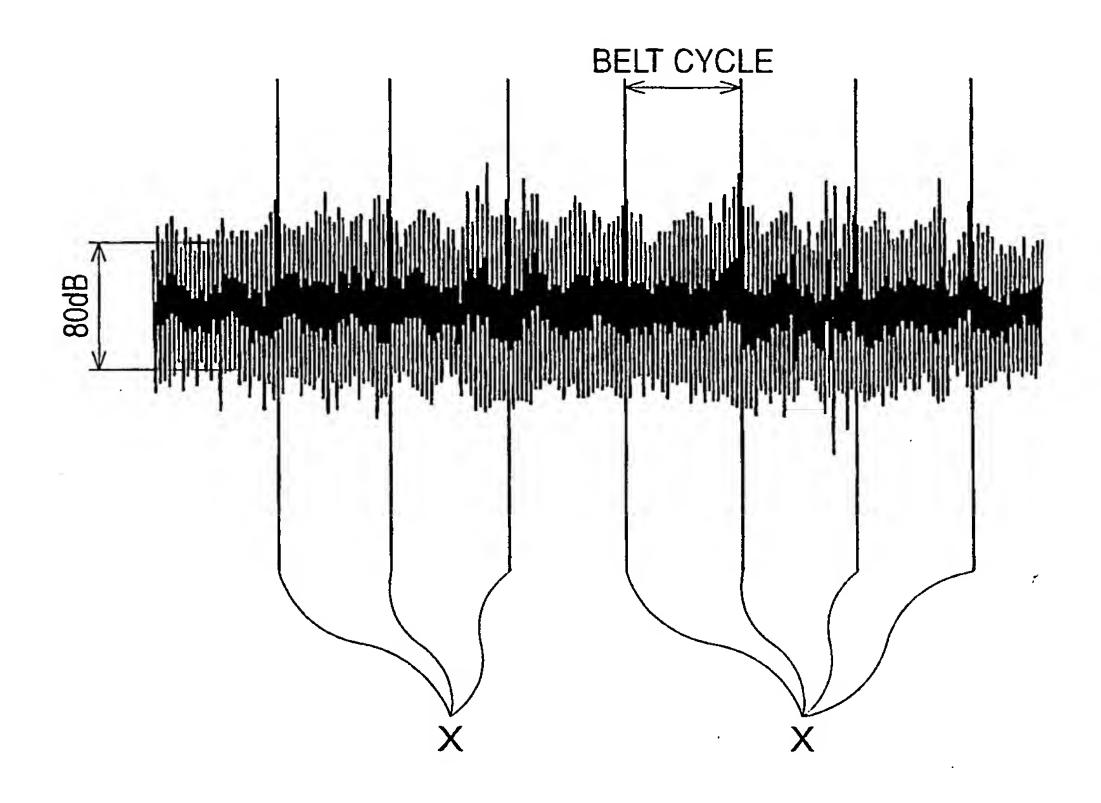


FIG. 7



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10612

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl7 F16G 1/00, F16G 1/28			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl7 F16G 1/00 - 9/04			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields scarched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2001, Japanese Registered Utility Model Gazette 1994-2001, Japanese Gazette Containing the Utility Model 1996-2001			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
X	JP 6-280943 A(MITSUBISHI E TECHNO-SERVICE CO.,LTD.) 1 (FAMILY: NONE) CLAIM 1, FIG.1-4, PARAGRAP	994.10.07	1,3,4,6,7,9
A	JP 9-242826 A(TOYOTA MOTOR 1997.09.16(FAMILY: NONE) CLAIM 1,2, FIG.1	CORPORATION)	1-12
	Microfilm of the specifica annexed to the written app Japanese Utility Model App No.103434/1983 (Laid-open (NISSAN MOTOR CO.,LTD) 198 ENTIRE DOCUMENT. (FAMILY:	lication of lication No.12747/1985) 5.01.28, SEE THE	1-12
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone	
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the priority date claimed		document member of the same patent family	
Date of the actual completion of the international search 19.11.03		Date of mailing of the international search report 02.12.03	
Name and mailing address of the ISA/JP		Authorized officer	
Japan Patent Office		MINORU TORII (3J 3021
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 E	